

ABSTRACT OF THE DISCLOSURE

A system, method and computer-readable media are disclosed for a security model and mode of enforcement in a graphics subsystem in a computing device. A uniform, streamlined, and flexible procedure for creating objects that contain their own security policies and are placed in protection domains when they are instantiated based on their specific security needs is described. A process boundary is utilized as the primary security or protection boundary for enforcing the security model. The security model takes advantage of the fact that most object models allow objects to have interfaces. An object's interfaces are used to determine what caller objects are capable of accessing. Thus, there is a mapping of an object's capabilities to interfaces. An object determines what a caller object is entitled to based on the investigation by the caller object and of what the caller object's knowledge of the object's interface. The caller's investigation determines what other aspects of the object the caller is entitled to. The method aspect of the invention comprises an interface of a target object receiving a call from an external object which is aware of the existence of the interface. At the target object, it is determined whether the external object has access to other interfaces of the target object based on the first call. Access is granted to other interfaces based on this determination.